VOROVICH, I.I., doktor fiz.-mat. nauk, prof.; USTINOV, Yu.A., assistent; SAFRONOV, Yu.V., kand. fiz.-mat. nauk, dotsent

Determining contact pressure between the tire and the rim.

Izv. vys. ucheb. zav.; mashinostr. no.10:26-37 '64 (MIRA 18:1)

1. Rostovskiy-na-Domu gosudarstvennyy universitet.

AKSENTYAN, O.K. (Rostov-na-Donu); VOROVICH, I.I. (Rostov-na-Donu)

Stressed state of a plate of small thickness. Prikl. mat. i mekh.
27 no.6:1057-1074 N-D '63. (MIRA 17:1)

3/0040/63/027/006/1057/1074

ACCESSION NR: AP4001621

AUTHORS: Aksentyan, O, K. (Rostov-na-Domu); Vorovich, I. I. (Rostov-na-Domu)

TITLE: State of stress in a small-thickness plate

SOURCE: Prikl. matematika i mekhanika, v. 27, no. 6, 1963, 1057-1074

TOPIC TAGS: plate stress distribution, stress thickness relationship, biharmonic stress distribution, rotational stress distribution, potential stress distribution, small thickness plate

ABSTRACT: The authors investigate an elasticity theory problem for a plate under stresses given on the boundary. They study the behavior of the stressed state when the thickness of the plate is decreased. The methods for constructing asymptotic processes for this problem were proposed by A. L. Gol'denveyzer in a report at the first All-Union Conference on Theoretical and Applied Mechanics in 1960, and also by several others. The method given by the authors in the present work reduces the construction of the asymptotic to sequential solution of a series of biharmonic problems, equivalent to a problem in applied theory of flexure of a plate and inversion of an infinite matrix. This, matrix does not depend on the

Card 1/2

			i de la compania del compania de la compania del compania de la compania del compania de la compania de la compania de la compania del compania de la compania de la compania de la compania del compania	Allegia de la composición del composición de la composición del la composición de la composición de la composición de la composición de la composición del composición del composición de la com		
	ACCESSION NR: AP400162	1	•		and loads	
	geometry of the plate, Orig. art. has: 75 for	and its inversion marmulas and 4 figures.	y ha done once	for all place	9 Alat Tombe	
	ASSOCIATION: none	•	200-263	•	ENCL: 00	٠
	Submitted: 24Jun63		19Dec63	المستندان	OTHER: 003	• :
1	SUB CODE: AP	NO REI	50V: 007		Olimaci oos	
				1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		
					•	
				•	•	
					and the second second	
	Card 2/2	والمعارض والمعارض والمارية وال				

## VOROVICH, I. I. (Rostov-or-Don)

"Some mathematical problems of the theory of plates and shells" report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 Jan - 5 Feb 1964.

ALEKSANDROV, V.M.; BABESHKO, V.A.; VOROVICH, I.I.; (Rostov-on-Don)

"Asymptotic method of solving contact problems for the layer of small thickness"

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 January - 5 February 1964

VOROVICH, I.I.; KHAPLANOV, M.G.

Work of Rostov mathematicians in recent years. Usp. mat. nauk 13 no.2:\$11-233 Mr-Ap '63. (MIRA 16:8)

(Rostov-Mathematics)

vorovich, iti.

Some cases of the existence of periodic solutions. Trudy Sem.po funk.anal. no.3/4:3-19 '60. (MIRA 14:10) (Differential equations) (Functional analysis)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020002-1"

## "APPROVED FOR RELEASE: 03/14/2001 CIA-R

CIA-RDP86-00513R001861020002-1

ALEKSANDROV, V.M. (Rostov-na-Donu); VOROVICH, I.I. (Rostov-na-Donu)

Action of a stamp on an elastic layer of finite thickness. Prikl.
mat. 1 mekh. 24 no. 2:323-333 Mr-Ap '60.
(Elasticity)

(Elasticity)

VOROVICH, I.I. (Rostov-na-Donu)

Some general representations of solutions to the equations of the theory of shallow shells. Prikl. mat. 1 mekh. 25 no.3:543-547 (MIRA 14:7) My-Je '61. (Elastic plates and shells) (Differential equations, Partial)

VOROVICH, I.I.; YUDOVICH, V.I. (Rostov-na-Donu)

Stationary flow of a viscous incompressible fluid. Mat. sbor. 53
no. 4:393-428 Ap 161.

(Hydrodynamics)

32508

16,4600

s/044/61/000/011/031/049 C111/C444

AUTHOR:

Vorovich, J. J.

TITLE:

On some cases of the existence of periodic solutions

PERIODICAL:

Referativnyy zhurnal, Matematika, no. 11, 1961, 76-77, abstract 11B406. (Tr. Seminara po funkts, analizu. Rostovsk.

n/D. un-t, Voronezhsk. un-t, 1960, vyp. 3-4, 3-19)

Considered be the Hilbert space 12 with the elements

 $X = x_1, \dots, x_n, \dots$ ) and in it the infinite system of differential

equations

 $\chi^2 \ddot{x} = \text{grad}_{1}, \Phi (x, \sin t, \cos t),$ (1)

where  $\phi$  is a functional in  $l_2$ ,  $\lambda^2$  being constant. If  $\phi$  does not contain the variable t, then (1) may be considered as the equation of free oscillations of a mechanical system. If o contains the time explicitly, then (1) describes a parametric exitation of the system. In this paper one proves the existence of periodic solutions of the Card 1/4

32508 s/044/61/000/011/031/049 C111/C444

On some cases of the existence . . . equation (1) and of the equation

 $\ddot{X} = \operatorname{grad}_{1_2} \Phi (X, \sin t, \cos t) + F(t)$ 

where F(t) is a vector function with the period 2  $\pi$ . The equation (2) may be considered to be the equation of the forced oscillations of the system.  $S_R \times |x|$  indicates the topological product of the closed sphere  $S_R \subset 1_2$  with radius R and the square - 1  $\leq$  v, w  $\leq$  1. The following conditions be satisfied: 1.)  $\phi(x, y, w)$  is continuous and 

where the equality sign only holds for x = 0.

Then on every sphere  $\int_{0}^{2\pi} \sum_{i=1}^{\infty} x_{i}^{2} dt = g^{2} > 0$  (1) possesses at least

a denumerable set of 277 - periodic solutions, to which correspond Card 2/4

32508 S/044/61/000/011/031/049 C111/C444

On some cases of the existence . . . C111/C444 different  $\lambda^2$  and the Fourier series of which only contain sinus terms. There by exists a sequence of solutions such that  $\lim_{n\to\infty}\lambda_n^2=0$ . As  $\Phi$  the functional

$$\Phi = -\frac{1}{2} \sum_{i=1}^{\infty} \mu_i^2 x_i^2 + U(X, \sin t, \cos t),$$

be taken, where  $0 \le \mu_i \le 0 < 1$ , the functional U > 0, satisfying the conditions 1) and 2). Further on as F(t) a  $2\pi$  - periodic function with the components  $F = (f_i) \in L_2(0, 2\pi)$  be taken, where

$$\sum_{i=1}^{\infty} \int_{0}^{2\pi} f_{i}^{2} dt < \infty \text{ and}$$

$$\sum_{i=1}^{\infty} \int_{0}^{2\pi} f_{i}^{2} dt < \infty \text{ and}$$

$$\varphi_{im} = \frac{1}{\pi} \int_{0}^{2\pi} f_{i} \cos mtdt = 0, i, m = 1, 2, ..., \infty.$$

Then (2) possesses at least one  $2\pi$  - periodic solution, the Fourier series of which contains only sinus terms. Beside one states that by Card 3/4

32508 \$/044/61/000/011/071/049 C111/C444

On some cases of the existence . . . C111/C444 a suitable change of a number of Fourier coefficients of the function F(t) one can attain the same number of Fourier coefficients of the solution X(t) having arbitrary given values.

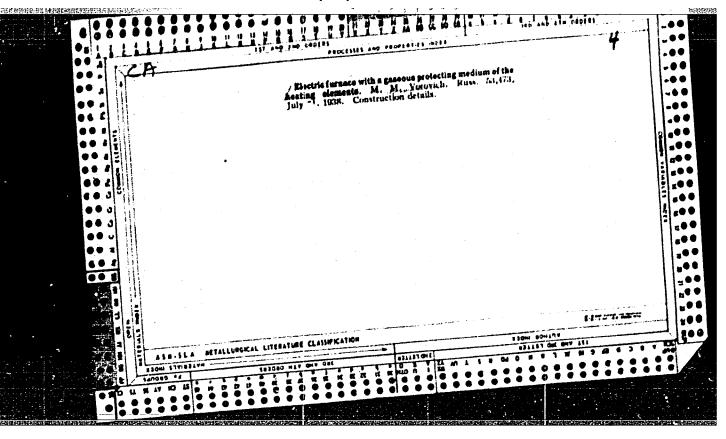
[Abstracter's note: Complete translation.]

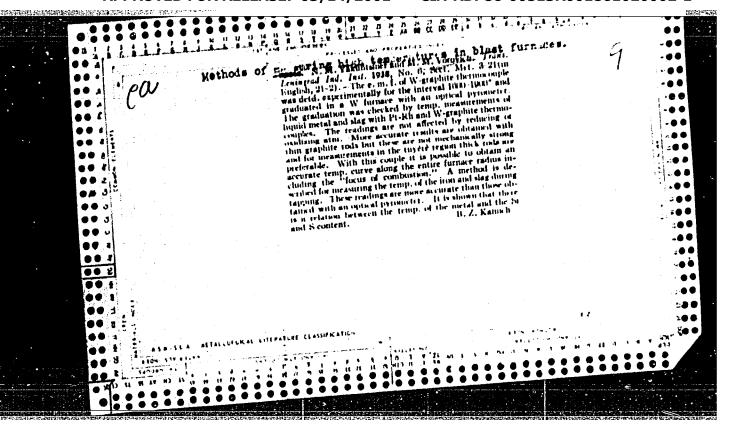
Card 4/4

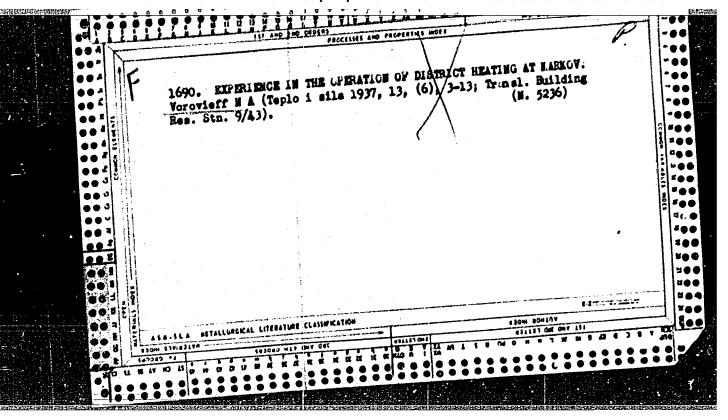
AUTHOR: Vorovich, L. S. (Rostov-on-Don)  ORG: nono  TITIE: Vertical impact of a sphere semi-immersed in a fluid of finite depth  SOURCE: AN SSSR. Izvestiya. Mekhanika zhidkosti i gaza, no. 4, 1966, 101-113  TOPIC TAGS: impact test, fluid dynamics	
ORG: none TITIE: Vertical impact of a sphere semi-immersed in a fluid of finite depth SOURCE: AN SSSR. Izvestiya. Mekhanika zhidkosti i gaza, no. 4, 1966, 101-113 TOPIC TAGS: impact test, fluid dynamics	
SOURCE: AN SSSR. Izvestiya. Mekhanika zhidkosti i gaza, no. 4, 1966, 101-113	
TOPIC TAGS: impact test, fluid dynamics	
TOPIC TAGS: impact test, fluid dynamics	1
1	
ABSTRACT: The study of impact in an ideal incompressible fluid, in the classical statement of the problem, reduces to mixed problems in the potential theory. In statement of the problem, reduces to mixed problems in the potential theory. In plane case, the solution of these problems is simplified by use of the methods of theory of a complex variable. In the three dimensional case, the matter becomes theory of a complex variable. In the three dimensional case, the matter becomes complicated, particularly if the boundaries of the volume containing the fluid are complex form. For this reason, the effect of the bottom and the walls of a vesse complex form.	more e of
the pressure and velocity distribution all assertions the vertical impact of a sphe	rical
three dimensional case. The present work considers the votation of the solid body, half immersed in a layer of fluid of finite depth (See Fig. 1.)	

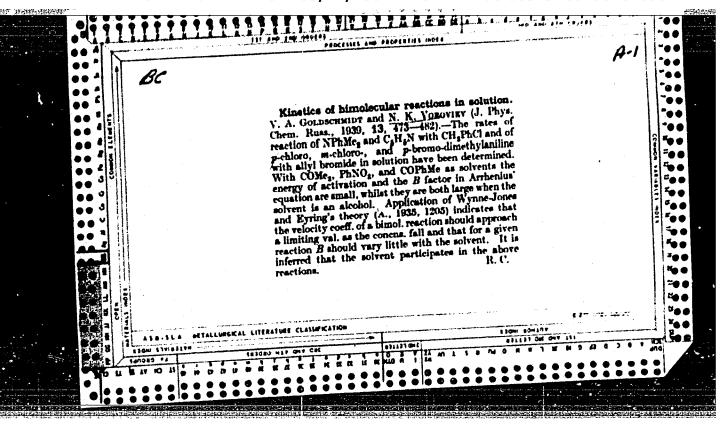
L 06066		15		10						0	1:
			, Ye		8,						•
				Fig	. 1.						1
		ical treat		the pr onena w	mich occ	ur durin	g impact	• Orig	art. h	nas :	
effect of 66 forms	l the D	7 figures	•				g impact	, Orig	, art. l	185 <b>:</b>	
effect of 66 forms	l the D		•				g impact	• Orig	, art. l	nas :	
effect of 66 forms	l the D	7 figures	•				g impact	• Orig	, art. l	nas :	

VOROVICH, M. M. B. P. SELIVANOV, REPTS. INST. METALS (Leningrad) n. 15, 171-7(1933)









## VOROVITSKAYA B.Ya. KIRYNAH, G.I.

Regularizing the wage system of the baking industry. Thieb. i kond. (MIRA 10:4) prom. 1 no.1:29-33 157.

1. Rosglavkhlob.
(Bakers and bakeries) (Wages)

vordvitskiy, A. N.

USSR/Miscellaneous -- machine construction

Card 1/1

Authors : Al'shits, Ya. I., Cand. in Tech. Sci., Docent; Vorovitskiy, A. N.,

Cand. in Tech. Sci., Docent; and Kostyukevich, F. V., Cand. in Tech.

Sci., Docent

Title : Ball type safety clutches

Periodical : Vest. mash. 54/3, 20-24, Mar/1954

Abstract : The number of kinds of safety clutches is limited. There are clutches

in which one of the links breaks under overload, friction clutches, and clutches in which the gripping is done by means of teeth, balls, sliding blocks, etc., which slip over each other. Calculations of co-

efficients of friction are given along with pressures required for

various situations, for which equations are worked out.

Institution : ......

Submitted : ......

AGROSKIN, A.A.; GRIGOR'YEV, S.M.; ZAGREBEL'HAYA, V.S.; LOSKUTOVA, Ye.N.;
PETRENKO, I.G.; PITIN, R.H.; CHIZHEVSKIY, H.P., akademik otvetstvennyy redaktor; VCROVITSKIY, I.B., redaktor; AUZAH, M.P.,
tekhnicheskiy redaktor

[Increase of the weight of coal per cubic meter by microadditives of liquid hydrocarbon; a collection of articles] Uvelichenie nasypnogo vesa uglia mikrodobavkami uglevodorodnykh zhidkostei; sbornik rabot. Moskva. Izd-vo Akademii nauk SSSR, 1947. 398 p. (Coke) (Coal)

AL'SHITS, Yakov Isaakovich, dots.; VERKLOV, Boris Abramovich; VOROVITSKIY,

Abram Nakhimovich, dots.; KOSTYUKEVICH, Fedor Vasil'yevich, dots.;

MAIETEV, Georgiy Vasil'yevich, dots.; OSOKIH, Pavel Andreyevich,
assist.; ROZENBERG, Boris Lazarevich, dots.; LADYGIH, A.K., inzh.
retsenzent; SHURIS, N.A., red.; SHOROKHOVA, A.V., red. izd-va;
BOLDYREVA, Z.A., tekhn. red.; MAKSIMOVA, V.V., tekhn. red.

[Mining machinery] Gornye mashiny. By IA.I.Al'shits i dr. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1961. 491 p. (MIRA 14:12)

1. Glavnyy inzhener Spetsial nogo konstruktorskogo byuro Kopeyskogo mashinostroitel nogo zavoda (for Verklov).

(Mining machinery)

#### "APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001861020002-1

AL'SHITS, Ya.I., dotsent, kandidat tekhnicheskikh nauk; YORGYITSKIY, A.B., dotsent, kandidat tekhnicheskikh nauk; KOSTYUKEVICH, F.V., dotsent, kandidat tekhnicheskikh nauk.

Ball-type safety coupling, Vest.mash, 34 no.3:21-24 Mr '54.

(MIRA 7:4)

(Couplings)

USSR/Geophysics - Atmospher Pressure

Vo Kovvev, A. G.

"New Data Concerning the Pressure of the Atmosphere on Mars," Prof A. G. Vorovyev,

Leningrad

Priroda, No 6, pp 84-85

States that although Mars' atmosphere is around 90 millibars, aviation of the type on earth, i.e., with wings, is possible in the Martian atmosphere because the weight of a body on and third of the weight.

Mars is three times less than on Earth.

261195

S/144/62/000/005/005/005 D289/D308

AUTHORS:

Golynskiy, A.I., Assistant, <u>Vorovyev</u>, G.A., Candidate of Technical Sciences, and Mesyats, G.A., Candidate of

Technical Sciences

TITLE:

High voltage spark discharger with quick commutation

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Elektromekhanika, no. 5, 1962, 560 - 562

TEXT: Basically the device consists of a 3 electrode arrangement in carbon dioxide medium where one electrode is situated underneath the other two. The breakdown of the trigger electrode produces a pulse of ultraviolet light on to the main spark gap and triggers it extremly quickly (10-9 sec). The stability of the discharger is maintained by a potential divider network. Allowable voltage relationships between the electrodes are fully analyzed. The discharger described has a working voltage of 15 kV, trigger electrode at 10.2 kV, trigger impulse of 4 kV, breakdown voltage factor (ratio of working voltage to breakdown voltage between electrodes 2 and 3) of 2.5 - 3.2. As a load 5 meter long coaxial cable was used. Time concard 1/2

sov/86-59-1-15/39

AUTHOR: Vorce, L.V., Capt

TITLE: To Eliminate the Causes for Potential Aircraft Accidents (Isklyuchit' predposylki k letnym proisshestviyam). 2. When the Pilot has Made an Error in the Landing Approach Plan Under Unfavorable Weather Conditions (Yesli letchik dopustil oshibku pri zakhode i raschete na posadku v slozhnykh

meteo-usloviyakh)

PERIODICAL: Vestnik vozdushnogo flota, 1959, Nr 1, pp 35-37 (USSR)

ABSTRACT: This is the second of three articles which appear under the main title as given above. When making a landing approach under unfavorable weather conditions, even experienced pilots, according to the author, sometimes make errors to such an extent that the landing becomes unsafe, or even impossible. The author describes the proper approach procedure including the method of two 180° procedure turns. There are two tables.

Card 1/1

VOROV'YEV, Tevgeniy Ivanovich; MARGULIS, U.Ya.

[Atomic energy and atomic protection] Atomada energiia i protivoatomana zashchita. Pod red. A.Ignat'eva. Moskva, Institut sanitarnogo proteveshchenia Ministerstva zdravdokhranenia SSSR, 1956. 74 p.

(Atomic bomb—Safety measures)

VOROV YEVA, N.N.; ZALESSKIY, G.D.

Role of filterable viruses in the etiology of rheumatic fever. Vop.virus. 7 no.3:268-273 My-Je '61. (MIRA 14:7)

1. Novosibirskiy meditsinskiy institut.
(RHEUMATIC FEVER) (VIRUSES)

# VOROV'YEVA, Ye. I;ZAITSEVA, A. A.

Refractometric spinal fluid examination in mental diseases. Nevropat. psikhiat., Moskva 19 no.5:81-82 Sept-Oct 1950. (CIML 20:1)

1. of the First Leningrad Medical Institute and of the Department of Psychiatry of Vinnitsa Medical Institute.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020002-1"

KOSTENKO, Anastasiya Yakovlevna; GORODETSKIY, Ye.N., red.; VORZHETSOVA, L.N., red.; HOYOSELOVA, V.V., tekhn.red.

[Study topics for the 10th grade: "Reorganization of the national economy" and "Consolidation of the Soviet multinational state"] Izuchenie temy "Vosstanovlenie narodnogo khoziaistva. Ukreplenie Sovetskogo mnogonatsional nogo gosudarstva" v X klasse. Moskva, Izd-vo Akad.pedagog.nauk RSFSR, 1959. 81 p. (MIRA 13:2) (Russia--Economic policy) (Russia--History)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020002-1"

VOROZHBIT, A.L.; FINANSOV, V.N.

Development of the Kama-Kinel' Depression in Orenburg Province.
Geol. nefti i gaza 7 no.12:12-14 D '63. (MIRA 17:8)

1. TSentral'naya nauchno-issledovatel'skaya laboratoriya tresta Orenburgneftegazrazvedka.

VOROZHEYENKOV, V.G., gvardii podpolkovnik, voyennyy shturman pervogo klassa; KROPANEV, B.P., gvardii mayor, voyennyy shturman vtorogo klassa

Navigator D. P. Vysk sets an example. Vest. Vozd. Fl. no. 12:39-43 D 160. (Navigation (Aeronautics))

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020002-1"

VOROZHEYKIN, A., general-mayor aviatsii v zapase, dvazhdy Gercy Sovetskogo
Soyuza

Below us is Tomarovka. Vest. Vozd. Fl. no.12:72-77 D '61.
(MIRA 15:3)

(World War, 1939-1945-Aerial operations)

Fighter plane. Kryl.rod 13 no.8:24-25 Ag '62. (MIRA 15:8)
(World War, 1939-1945--Aerial operations)

Vighter planes, Kryl. rod. 13 no.9128-30 & 162. (MIRA 15:10)

(World War, 1939-1945-Aerial operations)

You have to be a master cook.... Obshchestv.pit. no.5:52-53 My 160.

(MIRA 13:10)

1. Tekhnicheskoye uchilishche No.6, Yalta. (Yalta-Cooking schools)

VOROZHEYKIN, A., dvazhdy Geroy Sovetskogo Soyuza

Together with attacking troops. Kryl. rod. 14 no.11:2-4
N 163. (MIRA 16:11)

VOROZHEYKIN, A., general-mayor aviatsii zapasa, dvazhdy Geroy Sovetskogo Soyuza Risk and feat of arms. Av.i kosm. 46 no.6:83-87 Je '63. (MIRA 16:8) (World War, 1939-1945--Aerial operations)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020002-1"

VOROZHEYKIN, A., general-mayor aviatsii zapasa, dvazhdy Geroy Sovetskogo Soyuza

Encounter with young people. Av. i kosm. 47 no.11:84-87 N 164.

(MIRA 17:11)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020002-1"

VOROZHEYKIN, Arseniy Vasil'yevich, Dvazhdy Geroy Sovetskogo Soyuza general-mayor aviatsii; BARANOV, N.V., red.; CHAPAYEVA, R.I., tekhn. red.

[Over the Kursk arch] Nad Kurskoi dugoi. Moskva, Voenizdat, 1962. 262 p. (MIRA 16:2) (World War, 1939-1945--Aerial operations)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020002-1"

		Victory banners over Herbin. Kryl. rcd. 16 rd.5:4-5 Mg	165. (MIRA 1816)
-			•
•			
-			
	*		
		en en skat fra en	

VOROZHEYKIN, Arseniy Vasil'yevich, general-mayor aviatsii, dvazhdy Geroy Sovetskogo Soyuza; SHOLIN, V.H., red.; SOKOLOVA, G.F., tekhn.red.

[Fighter planes] Istrebiteli. Moskva, Voen.izd-vo K-ve obor. SSSR, 1961. 297 p. (MIRA 14:4) (World War, 1939-1945--- Aerial operations)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020002-1"

# VOROZHEYKIN, D.I.; SKOBELEV, K.I.

Experience in the operation of 220 kv traction substations, Zhel. dor. transp. 46 mc.1:27-31 Jz '64. (MIRA 17:8)

1. Zamestitel' nachal'nika Glavaogo upravleniya elektrifikatsii i energeticheskogo khozysystva Ministerstva putey soobshcheniya (for Vorozheykin). 2. Nachal'nik sluzhby elektrifikatsii i energeticheskogo khozyaystva Severo-Kavkazakoy dorogi (for Skobelev).

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020002-1"

# VOROZHEYKIN, D.I.

Complete in due time the annual electrification plan, speed up the tempo of work in sections paid for by piece rate. Elek. 1 tepl.tiaga 7 no.11: 1-3 N '63. (MIRA 17:2)

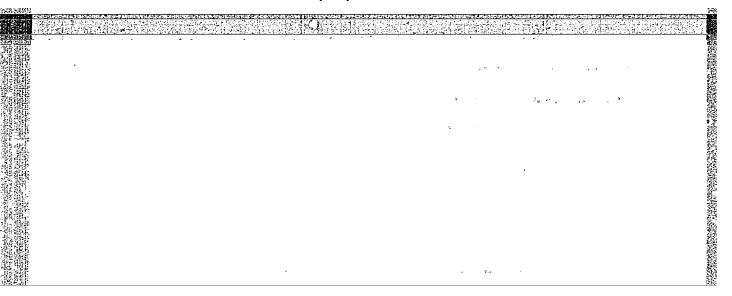
l. Zamestitel' nachal'nika Glawnogo upravleniya elektrifikatsii i energeticheskogo khozyaystva Ministerstva putey soobshcheniya.

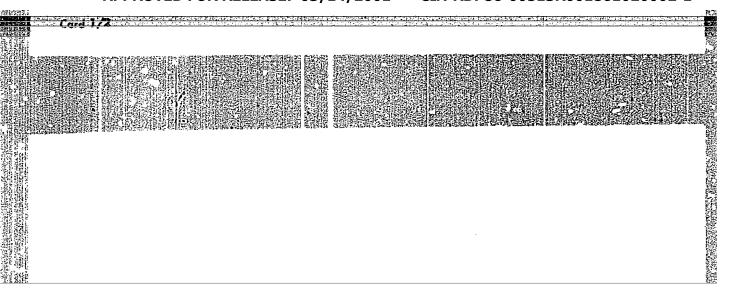
APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020002-1"

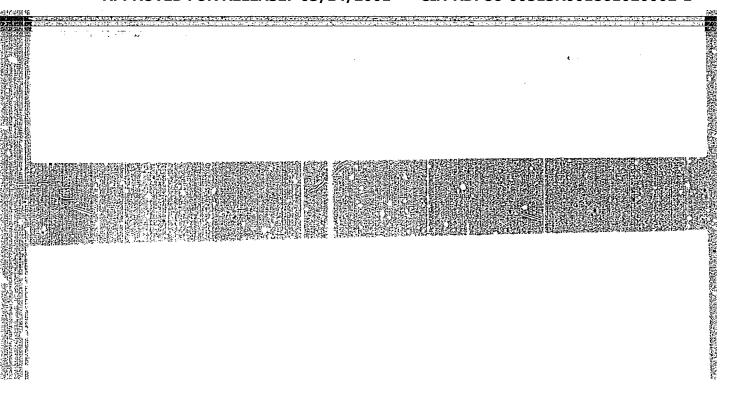
VOROZHEYKIN, D.I., inzh.

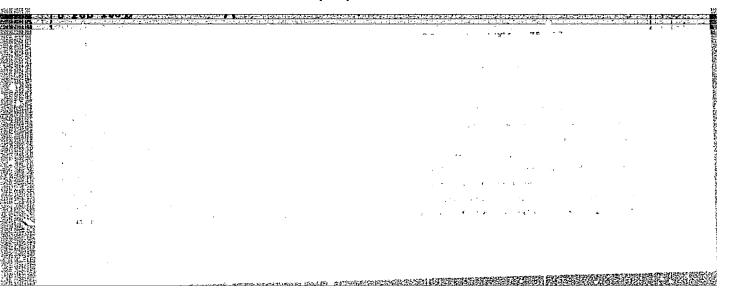
Electrified railroad districts in France. Elek. i tepl. tiaga 5 no.3:45-48 Mr '61. (MIRA 14:6)

(France-Electric railroads)









#### 

SOURCE CODE: UR/3182/64/00 //000/00/13/0030 ACC NR: AT6003160 410 G.: Vorozheykina, L. P.; Abremishvili Andronikashvili, E. AUTHOR: M. G. ORG: none 21.94.55 TITLE: Influence of defects of the structure on the mechanical properties of crystal SOURCE: AN GruzSSR. Institut fiziki. Elektronnyye i ionnyye protsessy v tverdykh telakh, v. 1, 1964, 13-30 TOPIC TAGS: crystal defect, ionic crystal, x ray irradiation, gamma irradiation, neutron irradiation ABSTRACT: An investigation was made of the effect of x- and gamma-ray, irradiation and neutron flux irradiation in a reactor on the hardness of potassium thloride and lithium fluoride crystals at room and liquid nitrogen temperatures. Microhardness H<sub>m</sub>, hardness to scratching H<sub>s</sub>, and hardness according to the attenuation of pendulum oscillations Ho were established by measurements on the surfaces of specimens cut from a single crystal ingot. The optical absorption spectra were also measured. The formation of point defects such as electron F-centers due to x-ray irradiation reduced the H<sub>m</sub>, H<sub>B</sub>, and H<sub>D</sub> of KCl crystals. Prolonged irradiation may result in increased H<sub>D</sub>. Discoloration of crystals restored H<sub>D</sub>. In Lif crystals irradiated with x- and gemma-rays APPROVED FOR RELEASE; 03/12/3901 on CIA-RAPRAG-OGBI3RQ01864020002-1"

7

1/2

L 12774-66

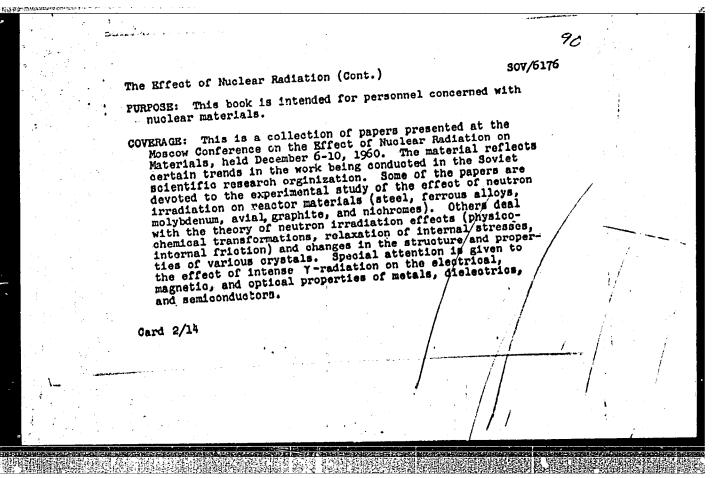
ACC NR: AT6003160

than KCI crystals. Both LiF and KCl crystals were strengthened, although strengthening of the LiF crystals was greater than that of the KCl crystals. The strengthening effects were apparently not associated directly with the coloration of the crystals, The effects of neutron flux irradiation of KCl crystals varied according to the type of hardness. At small irradiation doses H<sub>s</sub> and H<sub>p</sub> decreased sharply. At doses up to 9 x 10<sup>15</sup> n/cm<sup>2</sup>, H<sub>g</sub> was 30% lower than in nonirradiated specimens and H<sub>p</sub> 20% lower. After reaching a minimum, H<sub>g</sub> and H<sub>p</sub> began to increase and at ~16 x 10<sup>5</sup> n/cm<sup>2</sup> they reached their initial values. In the beginning H<sub>m</sub> increased and then reached saturation. The removal of thermal neutrons from the flux by means of cadmium filters had virtually no effect on the dose dependence of the types of KCl crystal hardness studied. Changes in the irradiation temperature changed the behavior of the hardness for instance, H<sub>g</sub> of KCl crystals decreased when irradiated with doses up to 9 x 10<sup>15</sup> n/cm<sup>2</sup>, while at low temperature irradiation increased. H<sub>p</sub> behaved similarly. Orig. art. has: 22 figures.

SUB CODE: 20/ SUBM DATE: none/ ORIG REF: 003/ OTH REF: 001/ ATD PRESS: 4/54

Card 2/2 HW

, VOROZHEIKINA, L. F.		90		
	*.			
	ADT OTTE TON	sov/6176	1	
PHASE I BOOK EX				
Konobeyevskiy, S. T., Correspond	Wombon Academ	y of Sciences	<u> </u>	
Konobeyevskiy, S. T., Correspond	ing member, means	•	4 4	
USSR, Resp. La.	- / 71	cease of		
USSR, Resp. Ed.  Deystvive vadernykh izlucheniv n Nuclear Radiation on Material Nuclear Resp. Rrrata slip in	s). Moscow, Izd-v	o AN SSSR,		
Nuclear range alin in	Berteu.	-	•	
Sponsoring Agency: Akademiya na	auk SSSR. Otdeleni	ye tekhni-	7	
Sponsoring Agency: Akademiya ne cheskikh nauk; Otdeleniye f	1ziko-matematiches	KIKU Damie		
CUGRITURE CO.	Denuty Resp. Ed.	. : 8. A.	1	
cheskikh nauk; Otdereniye  Resp. Ed.: S. T. Konobeyevski, Adasinskiy; Editorial Board; Adasinskiy; V. S. Lyash B. M. Levitskiy, V. S. Lyash Polypovskiy, and N. F.	P. L. Gruzin, G.	u. A. Martynyuk,	의 기계 	
Adasinskiy; Editoria, B. Lyash B. M. Levitskiy, V. S. Lyash Yu. I. Pokrovskiy, and N. F.	Pravdyuk; Ed. of	Publishing		
B. M. Levitsky, and N. F. Yu. I. Pokrovsky, and N. F. House: M. G. Makarenko; Teo	h. Eds: T. V. Pol	YEKOVE BIN	1 .	
I. N. Dorokhina.		•		•
Card 1/14		•		
, cara =/=				
- I make the same of the same	and the Control	. 1	•	
		. 1.		
				•
			1	
			,	•



			•
		7	***
	The Effects of Nuclear Radiation (Cont.) SOV/61	76	
a .	Pravdyuk, N. F., Yu. I. Pokrovskiy, and V. I. Vikhrov. Rffeet of Neutron Irradiation on Internal Friction in Mono- and Polycrystals of Zinc	35	
and the	Zakharov, A. I. Effect of Neutron Irradiation and Plastic Deformation on Young's Modulus and Internal Friction	142	X
f		251	
	In Crystals	257	
	Disturbances in Crystals of Lithium Fluoride	264	
32. V v v. A. A. Amburgan	Andronikashvili, B. L., N. Q. Politov, and L. F. Vorozheykina.  Rifect of Lattice Disturbances on Mechanical and Optical  Properties of Potassium Chloride Crystals.	268	
	Gard 10/14	· ·	
<u> </u>			• · · · · · · · · · · · · · · · · · · ·

L-2437-66 ENT(1)/ENT(q)/T/ENP(t)/ENP(b)/ENA(c) IJP(c) JD/JG/GG/GS

ACCESSION MR: AT5023807 / UR/0000/62/000/000/0268/0276

AUTHOR: Andronikashvili, E. L.; Politov, N. G.; Vorozheykina, L. F.

TITLE: Effect of lattice disturbances on the mechanical and optical properties of potassium chloride crystals

SOURCE: Soveshchaniye po probleme Deystviye yadernykh izlucheniy na materialy. Moscow, 1960. Deystviye yadernykh izlucheniy na materialy (The effect of nuclear radiation on materials); doklady soveshchaniya. Moscow, Izd-vo AN SSSR, 1962, 268-276

TOPIC TAGS: potassium chloride, crystal lattice defect, F band, color center, irradiation effect, hardness, x ray irradiation, neutron irradiation, gamma irradiation

ABSTRACT: The paper presents initial results of studies undertaken at the Institut fiziki AN Gruz. SSR (Institute of Physics AN Gruz SSR); for the purpose of determining the relationship between various types of lattice disturbances and the hardness of alkalimalide crystals. Various methods of inducing the disturbances were employed (additive coloring, x-irradiation, and irradiation with mixed neutron and gamma radiation in the IRT-2000 reactor). Additive and subtractive coloring of KCl single crystals caused a decrease in microhardness and Card 1/2

L 2437-66

ACCESSION NR: AT5023807

scratch hardness; the latter was more sensitive to change in the number of F-centers than the former. Upon exposure to n, Y-radiation, the microhardness and scratch hardness behave differently as the dose increases. It is suggested that this irradiation causes, in addition to the formation of F-centers, new kinds of lattice disturbances which even at low concentrations mask the influence of F-centers on the microhardness effect. The hypothesis that the same defects may affect different types of hardness to different degrees is confirmed. Furthermore, situations arise where different types of hardness change in different directions under the same conditions. This indicates that each type of hardness has a predominant relationship with certain definite types of lattice disturbances. Studies of the influence of x-rays on the F-band intensity show that the number of F-centers changes in a complex manner with increasing irradiation time. Orig. art. has: 10 figures.

ASSOCIATION: none

SUBMITTED: 18Aug62

ENCL: 00

SUB CODE: SS, OP

0:

NO REF SOV: 003

O'MER: 015

Card 2/2 had

s/0000/62/000/000/0287/0303

ACCESSION NR: AT4016310

AUTHOR: Andronikashvili, E.L.; Politov, N.G.; Mumladze, V.V.; Vorozheykina, L.F

TITLE: Plasticity and thermal conductivity of defective alkali halide crystals

SOURCE: Vses. soveshch. po fiz. shchelochnogaloidn. kristallov. 2d, Riga, 1961. Trudy\* Fiz. shchelochnogaloidn. kristallov (Physics of alkali halide crystals). Riga, 1962, 287-303

TOPIC TAGS: alkali halide crystal, plasticity, thermal conductivity, P-center, reactor radiation, crystallography, radiation defect, crystal physical property, hardness

ABSTRACT: In an extension of the authors' previous work, the influence of F-centers on plasticity and the influence of reactor radiation on plasticity and thermal conductivity were examined in Kcl crystals. The influence of reactor radiation on plasticity was also examined in LiF crystals. F-centers were produced by x-raying in a KUP-200-20-4 unit and an IRT-200 reactor was used for neutron and gamma radiations. Hardness was measured by the scratching and the pendulum swing damping methods. Optical absorption spectra were measur-Card 1/3

ACCESSION NR: AT4016310

ed with an SF-4 spectrophotometer and an assembly, based on the principles of A.V. Ioffe and A.F. Ioffe and constructed in the authors' laboratory, was used for the determination of thermal conductivity. This method was applicable at close-to-room temperatures and, in a 5 minute procedure, produced results with an accuracy of 3-5 per cent. At least one hundred samples were examined. Curves for the dependence of hardness on the duration of x-raying and the concentration of F-centers showed a steady growth of plasticity of KCl crystals for the duration of x-raying, accompanied by the accumulation of F-centers. Under the influence of reactor radiation KCl crystals showed an initial growth of microhardness, which ceases when a dose of 1016 neutron/cm<sup>2</sup> is reached. In contrast, the resistance to plastic deformation and mechanical strength continued to grow in LiF crystals. The thermal conductivity of KCl crystals under reactor radiation followed a complex pattern, showing an initial decrease, followed by an increase as radiation continued. Orig. art. has: 11 figures.

ASSOCIATION: Institut fiziki AN Gruzinskoy SSR (Institute of Physics, Academy of Sciences of the Georgian SSR)

Card 2/3

## "APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-

CIA-RDP86-00513R001861020002-1

ACCESSION NR: AT4016310

SUBMITTED: 00

DATE ACQ: 06Mar64

ENCL: 00

SUB CODE: GP

NO REF SOV: 010

OTHER: 013

Card3/3

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020002-1"

ACC NR: AT7000180

SOURCE CODE: UR/3182/65/002/000/0027/0034

AUTHOR: Andronikashvili, E. L.; Vorozheykina, L. F.; Igitkhanishvili, D. D.; Politov, N. G.

ORG: none

TITIE: Radiative changes in the conductivity of KCl and LiF crystals

SOURCE: AN GruzSSR. Institut fiziki. Elektronnyye i ionnyye protsessy v tverdykh telakh, v. 2, 1965, 27-34

TOPIC TAGS: neutron irradiation, gamma irradiation, crystal dislocation, crystal defect

ABSTRACT: An investigation was made of the relationship between the ionic conductivity and the activation energy of carriers in KCl and LiF crystals caused by reactor irradiation. The temperature dependence of ionic conductivity was investigated in the range from 50 to 400C. The heating of the specimens was carried out at a constant rate of 1 °C/min. The measurements were made in a vacuum of 10<sup>-4</sup> mm Hg. The specimens were irradiated in the IRT reactor of the Physics Institute of the Academy of Sciences, Georgian SSR at a point where the thermal neutron flux was 2.07 x 10<sup>12</sup> neutrons/cm<sup>2</sup>·sec. The conductivity was measured before and after irradiation with specimens produced from a single ingot. Radiative changes in conductivity accompanied sharp changes in the crystal microstructure following

Card 1/2

### ACC NR: AT7000180

irradiation with "critical" doses. For example, KCl crystals irradiated with a dose of 1.2 x 10<sup>16</sup> n/cm<sup>2</sup> displayed a minimum of dislocations when the activation energy was at a minimum and the conductivity was at a maximum. KCl specimens irradiated with doses of 5.8 x 10<sup>16</sup> n/cm<sup>2</sup> and 1.1 x 10<sup>17</sup> n/cm<sup>2</sup> had activation energies of the current carriers of 0.96 ev and 0.84 ev, respectively. Prior to irradiation, the activation energies were 0.84 ev and 1.0 ev, respectively. The thermal treatment taking place during the measurement of conductivity in KCl specimens irradiated at 7.6 x 10<sup>15</sup> n/cm<sup>2</sup> in the temperature range from 75 to 300C did not produce any changes in the conductivity or the activation energy of the current carriers. In Lif crystals, each thermal treatment increased the conductivity of the specimen and decreased its activation energy. The authors thank G. N. Garsevanishvili for irradiating the specimens and V. G. Kvachadze for his participation and discussion of the results. Orig. art. has: 10 figures and

SUB CODE: 20/ SUBM DATE: none/ ORIG: REF: 002/ OTH REF: 004/ ATD PRESS: 5109

Carc. 2/2

ACC NRI AR7000879

SOURCE CODE: UR/0058/66/000/009/E092/E092

AUTHOR: Andronikashvili, E. L.; Vorozheykina, L. F.; Igitkhanishvili, D. D.; Politov, N. G.

TITLE: Radiation-induced changes in the conductivity of potassium chloride and lithium chloride crystals

SOURCE: Ref. zh. Fizika, Abs. 9E736

REF SOURCE: Sb. Elektron. i ion. protsessy v tverd. telakh. No. 2. Tbilisi, Metsniyereba, 1965, 27-34

TOPIC TAGS: potassium chloride crystal, lithium chloride crystal, radiation, ion conductivity, activation energy, carrier activation energy, thermal neutron, radiation defect

ABSTRACT: A study was made of changes in the ion conductivity and the activation energy of carriers in KCl and LiF crystals irradiated with thermal neutrons at a flux density of 2.07 · 10<sup>12</sup> cm<sup>-2</sup>sec<sup>-1</sup> using a reactor of the Institute of Physics of the Academy of Sciences USSR. The activation energy was determined from

Card 1/2

# ACC NR: AR7000879

measurements of conductivity as a function of temperature within the 50-400C range. At relatively small radiation dosages conductivity was found to decrease with an increase in the activation energy; at the "critical" radiation dosage, of the order of 1.2 · 1016 cm<sup>-2</sup>, the activation energy reaches a minimum and conductivity a maximum, corresponding to a change by two orders of magnitude. The defects induced by radiation in KCl are thermally more stable than in LiF.

[SP]

SUB CODE: 20/

Card 2/2

EWT(1)/T IJP(c) GG ACC NR AR6016236 SOURCE CODE: UR/0058/65/000/011/2090 Andronikashvili, E. L.; Politov, N. G.; Vorzheykina, L. Ya.; Abramishvili AUTHOR: M. G. TITIE: Influence of structure defects on the mechanical properties of crystals SOURCE: Ref. zh. Fizika, Abs. 11E695 REF SOURCE: Sb. Elektron. i ionnyye protsessy v tverd. telakh. No. 1, Tbilisi, Metsniyereba, 1964, 13-30 TOPIC TAGS: crystal defect, irradiation effect, potassium compound, hardness, color center, Gamma irradiation, x ray irradiation, neutron irradiation ABSTRACT: An investigation was made of the influence of irradiation by x rays,  $\gamma$ rays, and neutrons at ordinary temperatures and at liquid-nitrogen temperature on the hardness of KCl and LiF crystals. Three types of hardness were measured: the microhardness Hm, the scratch hardness Hg, and hardness based on the damping of pendulum oscillations Hp. It is shown that as a result of the F-center formation under irradiation with x rays the KCl crystal becomes softer. The discoloring leads to restoration of the  $H_D$  hardness. LiF crystals harden when irradiated with x and  $\gamma$  rays independently of F-center formation. Irradiation of KCl crystals influences differently different types of hardness. It is shown that Hs, which decreases upon irradiation at ordinary temperatures, increases after irradiation at low temperatures, When crystals are neutron-irradiated, all three types of hardness increase even 1/2 Card

The process of at 6000 for 3 h	during the first stage of irradiation. Low-temperature irradiation of LiF crystals leads to a smaller radiation hardening than irradiation at ordinary temperatures. The process of radiation hardening is completely reversible: annealing of crystals at 600C for 3 hours completely eliminates the hardening. The influence of isothermal annealing at 300 and 700C is demonstrated. B. Prusakov. [Translation of					
				transition of		
SUB CODE: 20						
			•			
			<u> </u>			
				•		
Card 2/2 mc	• •					

VOROZHEYKINA, T.V.; PARFENOV, Yu.D.; ZAKUTINSKIY, D.I., prof. nauchnyy ruko-

Placental transfer of strontium-90 (Sr<sup>90</sup>). Biul. eksp. biol. i med. 54 no.8:96-100 Ag <sup>1</sup>62. (MIRA 17:11)

1. Predstavlena deystvitel'nym chlenom AMN SSSR A.V. Lebedinskim.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020002-1"

S/079/60/030/04/65/080 B001/B011

AUTHORS:

Nikolenko, L. N., Karpova, Ye. N., Vorozhtsov, G. N.,

Sergeyev, V. A., Ivanova, M. Ye.

TITLE:

Investigation in the Field of Aromatic Compounds With a Long Side Chain. IV. Synthesis of Nitro- and Amino-substituted 4-Tert-butyl-, 4-1800007777 and 4-(4,4-Dimethyl-benzyl)-phenols

PERIODICAL:

Zhurnal obshchey khimii, 1960, Vol. 30, No. 4, pp. 1336-1339

TEXT: As of late, some alkyl phenols are being used as intermediates for dyes. It was of interest to use for this purpose p-tert-butyl-(I a), p-isocctyl phenol (I b) and 2-(p-oxyphenyl)-2-phenyl propane-4-(\alpha,\alpha-dimethyl benzyl)-phenol (I v), which are commercially produced in large quantities. From among the products obtained from these phenols, 2-amino-4-alkyl phenols (II) and 2-amino-4-alkyl diphenyl ether (III) are particularly important.

Investigation in the Field of Aromatic Compounds S/079/60/030/04/65/080 With a Long Side Chain. IV. Synthesis of Nitro- B001/B011 and Amino-substituted 4-Tert-butyl-, 4-Isocotyl- and 4-(</r>

Nitration (Ref.2) of tert-butyl-, isooctyl- and dimethyl benzyl phenol was carried out with \$8.6% nitric acid in benzene at 10-15° (yield 79-84%). Nitrowsubstituted derivatives of diphenyl ether were obtained by restion of potassium phenolates with o-nitrochloro-benzene at 160-170° in the presence of copper as a catalyst (Ref. 3), with the tert-butyl-, isooctyl- and dimethyl benzyl group entering the para-position to the ether group. The reduction of the reaction temperature to 105°, recommended in publications, with a protracted heating (50 h instead of 4-5 h), without using copper (Ref. 4), gave rise to much smaller yields. The reduction of the homologs of 2-nitrodiphenyl ether and o-nitrophenol into the corresponding amines took place (in a more advantageous manner than by the usual procedure with cast-iron chips in electrolytic medium) with hydrogen on the nickel skeleton catalyst at normal pressure and room temperature. There are 1 table and 6 references, 2 of which are Soviet.

Card 2/3

Investigation in the Field of Aromatic Compounds S/079/60/030/04/65/080 With a Long Side Chain. IV. Synthesis of Nitro- B001/B011 and Amino-substituted 4-Tert-butyl-, 4-Isooctyl- and 4-(α,α-Dimethyl-benzyl)-phenols

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskiy institut imeni D. I.
Mendeleyeva (Moscow Institute of Chemical Technology imphi

D. I. Mendeleyev)

SUBMITTED: April 13, 1959

Card 3/3

VCROZHBA, N. V.

BOROZEBA, N. V.: "The treatment of persistent unhealing erosion (pre-cancerous state) of the cervix uteri using domestic preparations of radium-mesothorium." Irkutsk State Medical Inst: Irkutsk, 1955. (Dissertations for the Degree of Candidate in Medical Sciences).

SO: Knizhnaya Letopis! No. 22, 1956

HUNGARY/General Problems of Pathology. Comparative Tumors. Human U-5

Abs Jour : Ref Zhur - Biol., No 14, 1958, No 66145

Anthor : Jorozhba N.V.

Inst : Department of Obstatrics and Gynecology of the Irkutsk

Medical Institute

Title : The Treatment of Longstanding Mon-healing Erosions (Precencerous State) of the Cervix Uteri by Means of Native Preparations

of "Radium-Mesothorium".

Orig Pub : Sb. nauchn. tr. kafedry akusherstva i gynekol. Irkut. med.

in-ta, Irkutsk, 1956, 95-113

Abstract : Longstanding, non-healing erosions of the cervix uteri were

treated with radium-mesotherium rays (104 females). The cure wate reached 93.4 percent. Suppression of monstrual function was observed in a number of patients. -- I.D.

Nechayeva.

Card : 1/1,

# EXCERPTA MEDICA Sec.10 Vol.11/6 Obst. & Cyne June 58 TREATMENT OF CHRONIC CERVICAL EROSIONS (PRECANCEROUS STATE) BY NATIONAL PREPARATIONS OF RADIUM-MESOTHORIUM (Russian text) - Vorozhba N. V. - SBORN, TRUD, KAF, AKUSH, I GINEK, IR-KUTSK, MED, INST. 1956 (95-118) Radium-mesothorium irradiation was employed in the treatment of chronic erosions in 104 women over the age of 40. Cure resulted in 91 patients (93.4%); exacerbations of the inflammatory process in the parametrium occurred in 0.9%. The best method of treatment of a markedly enlarged uterine cervix is a simultaneous introduction of 20-30 mg. of radium-mesothorium into the cervical canal for 24-28 hr. and application of the same quantity to the uterine cervix. The dose has to be individually determined, from 1,000 to 2,800 mg. hours, and in cases of precancerous state, up to 3,500 mg. hours. Preparations of radium-mesothorium, in doses of 940 mg. hours and over, suppress the ovarian function in women over 40 yr. of age (especially over 47 yr. of age). A complete healing of cervical erosions in the majority of patients takes place clinically during the 12th-13th week after treatment; and morphologically after 13-15 weeks. To assess any changes. in the hormonal function of the ovaries, the vaginal smear method could be used 10-12 weeks after the end of treatment; before that time the presence of an erosion alters the cellular content of the vaginal secretion. Treatment with radiummesothorium preparations is recommended only for patients of 40 yr. of age and over, especially in the presence of chronic erosions associated with climacteric bleeding. Irradiation tends to produce simultaneously healing of erosions and cessation of bleeding. (S)

VEDENOV, Aleksey Nikolayevich; VOROZHBIT, A.A., neuchnyy red.; BARKOVSKIY, I.V., red.; LEVONEVSKAIA, L.U., tekhn.red.

[Taking pictures with miniature cameres; manual] Maloformathaia fotografiia; rukovodstvo-spravochnik. Leningrad, Lenizdat, 1959.

687 p. (MIRA 12:12)

(Miniature cameras) (Photography—Handbooks, manuals, etc.)

When the author is in command of the subject ("For the beginning amateur photographer" by K.V. Vendrovskii and B.A. Shashlov.

Reviewed by & Vorozhbit). Sov. foto 18 no.5:68-69 My \*58.

(Photography)

(WIRA 11:5)

(Vendrovskii, K.V.) (Shashlov, B.A.)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020002-1"

VOROZHBITOV, I. G.

Vorozhbitov, I. G.

"Paths of Drainage of Lymph from the Distal Sections of the Thoracic Extremity (sic) of the Horse, and Their Topography." Moscow Veterinary Academy, Min Higher Education USSR. Chair of Operational Surgery and Topographical Anatomy. Moscow, 1955 (Dissertation for the degree of andidate in Veterinary Sciences)

SO: Knizhnaya letopis' No. 27, 2 July 1955

Country: USSR N-4
CATEGORY:

ABS. JOUR. REZBIOL., No. 1/9 1959, No. 87004

AUTHOR: Bogdan, P. I.; Yorozhbitov, V. V.
INST.:
TITLE: Hard Wheat for Virgin Lands of Altai

ORIG. PUB.: Sb.: God rabety po osveyeniyu tselinnykh i zalezhnykh zemel' v Altayskom kraye. Hoscow;

ABSTRACT: No abstract.

MIKHAYLOVA, N.N.; VOROZHEYEVA, V.P.

Determination of hydroxybenzophenone derivatives by paper chromatography. Zav. 1ab. 30 no.7:802-803 '64.

(MIRA 18:3)

1. Nauchno-issledovatel'skiy institut khimikatov dlya polimernykh materialov.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020002-1"

## VOROZHEYKIN, A.

First graduates. Obshchestv.pit. no.9:20-21 S 159. (MIRA 12:12)

1. Master proizvodstvennogo obucheniya tekhnicheskogo uchilishcha No.6, Yalta, Krym. (Yalta--Cooking schools)

VOROZHEYKIN, D.I.; FAMINSKIY, G.V.

Repair and utilization of rolling stock in the people's democracies.

Blek.i tepl.tiaga no.10:45-48 0 '57. (MIRA 10:11)

(Europe, Eastern--Railroads--Cars--Maintenance and repair)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020002-1"

VOROZHEYKIN, D.I., insh.; PANFIL', L.S., inzh.

Instructive lessons; quality of designing and erecting contact networks. Elek. i tepl. tiaga no.6:17-19 Je '58. (MIEA 11:6) (Electric railreads--Wires and wiring)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020002-1"

VOROZHEYKIN, D.I., inzhener; KRASKOYSKAYA, S.N., inzhener.

Improvement of quick-break switches, Elek. i tepl. tiaga no.4; (MIRA 10:6)

(Electric cutouts)

VOROZHEYKIN, Dmitriy Ivanovich, inzh.; LIBMAN, Grigoriy Markovich; LEVIN,
Boris Mordukhovich; BEKHTEREV, Ivan Andreyevich; CHENNYSHEVICH,
Fedor Ignat'yevich; BOVE, Ye.G., kand. tekhn. nauk, retsenzent;
TISHCHENKO, A.I., inzh., retsenzent; YAKOVLEV, D.V., inzh., red.;
BOBROVA, Ye.N., tekhn. red.

[Operation and maintenance of electric d.c. locomotives] Ekspluatatsiia i obsluzhivanie elektrovozov postoiannogo toka. Moskva, Vses. izdatel'sko-poligr. obmedinenie M-va putei soobshcheniia, 1961. 341 p. (MIRA 14:8) (Electric locomotives)

111/1/ P.C.

IVANOV, I.I.; VOROZHEYKIN, D.I.

Methods of economizing on electric power on the railroads. Zhel.

1. Glavnyy inzhener Glavnogo upravleniya elektrifikatsii i energeticheskoge khezyaystva Kinisterstva putey scebshcheniya (for Ivanev) 2. Glavnyy inzhemer Elektrovesmege upravleniya Glavnege lekemetivnege khezyaystva Ministerstva putey seebshcheniya (for Verozheykin) (Electric railroads)

**APPROVED FOR RELEASE: 03/14/2001** CIA-RDP86-00513R001861020002-1"

ACC NR: APSO27590  ACC NR: APSO27590  consumption of the additive in the neutralization of the fuel combustion and oil  consumption of the additive in the neutralization of the consumption of additives  oxidation products, the relationships established for the consumption of service of the oxidation products, the relationships established for the consumption of service of the oxidation products, the relationships established for the consumption of service of the oxidation products, the relationships established for the consumption of service of the oxidation products, the relationships established for the consumption of service of the oxidation products, the relationships established for the consumption of service of the oxidation products, the relationships established for the consumption of the service of the oxidation products, the relationships established for the consumption of the oxidations of the oxidation products, the relationships established for the consumption of the oxidation products, the relationships established for the consumption of the oxidation products, the relationships established for the consumption of the oxidation products, the relationships established for the consumption of the oxidation products.				
duming short-	term tests cannot be	gures.		
of the oil.	rige BAU	ORIO REF: 003/OTH REF: 001		
SUB CCDE: 07	/ Supe Dails	•		}
		•		1
		•	•	
				1
				1
	• •	•		
		# *** # ****		
	en e			
		• • • •		
	<b>.</b>			

L 42173-66 EWT(m)/T ACC NR: AR6014532 SOURCE COIE: UR/0081/65/000/019/P018/P018 AUTHORS: Badyshtova, K. M.; Vipper, A. B.; Vorozhikhina, V. I.; Denisenko, K. K.; Kreyn, S. E.; Pyatiletova, N. I.; Ryazanov, L. S.; Yastrebov, U. I. 31 TITIE: Effect of the extent of refining of the distillate and residual components  ${\cal B}$ of DS-14 oil from sulfurous petroleum upon their operational properties SOURCE: Ref. zh. Khimiya, Abs. 19P129 REF SOURCE: Tr. Kuybyshevsk. n.-i. in-t neft. prom-sti, vyp. 25, 1964, 85-95 TOPIC TAGS: lubricating oil, petroleum refining, phenol / DS-14 lubricating oil. MS-20 lubricating oil, DS-11 lubricating oil ABSTRACT: Laboratory study and testing on the engine YaAZ-204 of five samples of DS-14 oil of Novokuybyshev NPZn(differing by the technology of their processing) have been performed. The study shows that the changes in the extent of phenolic refining of distillate and residual components (within the limits of 160-180 and 250-320%) of phenol, respectively) have no effect on the detergency, antioxidative, and antiwear properties of DS-14 oil containing effective additives. Economically, the most convenient method for producing DS-14 oil is to mix the residual and distillate components of Diesel oil, 60 and 40%, respectively, (i.e., components treated to a less extensive phenolic refining). This leads to lowering the price of DS-14 oil by 15% and to increasing its yield by 4%, as compared with the production of DS-14 oil by mixing oils 18-20 and DS-11. A. N. Translation of abstract/ SUB CODE: 11 Card

VOROZHISHCHEV, V.I., inzh.; YUSHIN, P.V., inzh.; MASLOVA, V.N., inzh.

Effect of aluminum on the contamination by nonmetallic inclusions, the plasticity at high temperatures, and the mechanical properties of steel. Stal! 25 no.8:852-854 S 165. (MIRA 18:9)

1. Kuznetskiy metallurgicheskiy kombinat.

ACRANENKO, V.A., kand.med.nauk; VOROZHISHCHEV, V.V.

Crush syndrome and its treatment by the method of hemodialysis using the "artificial kidney" apparatus. Vost.khir. no.5:63-68 162. (MIRA 15:11)

1. Iz Pochechnogo tsentra (zav. - V.A. Agranenko) TSentral'nogo ordena Ienina instituta gematologii i perelivaniya krovi (dir. - prof. A.A. Bagdasarov [deceased]).

(RENAL HISUFFICIENCY) (KTEMEYS, ARTIFICIAL)

(TRAUMATISH)

### AGRANENKO, V. A.; VOROZHISHCHEV. V. V.

Hemodialysis by means of the "artificial kidney" apparatus without use of a donor's blood. Probl. gemat. i perel. krovi no.1:3-9 '62. (MIRA 15:7)

1. Iz pochechnogo tsentra (zav. V. A. Agranenko) TSentral'nogo ordena Lenina instituta gematologii i perelivaniya krovi (dir. -deystvitel'nyy chlen AMN SSSR prof. A. A. Bagdasarov[deceased])

(ARTIFICIAL KIDNEY)

VOROZHKA, N., serzhant An improvised "assembly" on technology is held. Starsh.-serzh.
no.11:17 O[i.e. N] '61. (MIRA 1)
(Airplanes, Military--Maintenance and repair)

CIA-RDP86-00513R001861020002-1" APPROVED FOR RELEASE: 03/14/2001

VOROZHKO, A.V., inzhener.

Industrial safety aspects of modern equipment. Izobr. v SSSR 1 no.6: 26 D 56. (MLRA 10:4)
(Electric machinery--Safety appliances) (Industrial safety)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020002-1"

IMAYEV, E. (g. Sukhumi); BUYUKYAN, S. (g. Patrodvorets, Leningradskoy obl.);

VOROZHKO, V., (g. Inepropetrovsk); BUHENIN, V. (g. Yegor'yevsk,

Moskovskoy obl.); SAMYLOV, I. (Krasnoyarskiy kray); TARACHENKO, I.

(g. Mstislavl', Mogilevskoy obl.)

Suggestions of readers. Radio no. 4:47 Ap '60.

(MIRA 13:8)

(Radio)

WODOP'YAHOV, K.A.; VOROZHTSOV, B.I.

Effect of gamma radiation on the dielectric properties of some electric insulating materials. Izv.vys.ucheb.zav.;fiz. no.2;227-232 '60.

(MIRA 13:8)

1. Sibirskiy fiziko-tekhnicheskiy institut pri Tomskom gosuniversitete im. V.V.Kuybysheva.

(Electric insulators and insulation) (Gamma rays)

3 akademikom Ve. M. Pavlovskim.

(Scales (Fishes)) (Pacific Ocean-Salmon)

246820

80154 S/105/60/000/05/14/028 B007/B003

AUTHORS:

Vodop'yanov, K.A., Professor, Doctor of Technical Sciences, Vorozhtsov, B.I., Docent, Candidate of Physical and Mathematical Sciences, Potakhova, G.I., Candidate of Physical and Mathematical Sciences, Ol'shanskaya, N.I., Engineer

TITLE:

The Electrical and Physical Properties of Technical Electric Insulation Materials When Subjected to Radioactive Irradiation

PERIODICAL: Elektrichestvo, 1960, No. 5, pp. 60-66

TEXT: Experimental data are given in the paper under review. The influence of gamma radiation on the electrical and physical characteristics of highly polymeric dielectrics, siliconorganic and phenol formaldehyde synthetic materials. Irradiation was carried out with a betatron (design by the Tomskiy politekhnicheskiy institut (Tomsk Polytechnic Institute)) with an energy of the gamma rays of 15 Mev and a dosage rate of 300-1200 r/min. The samples were irradiated at various temperatures (-60, +20, +60°C) and at tropical humidity (+40°C and relative humidity of the air of 98%). The following was determined on the basis of these experiments described here in detail. High-polymer dielectrics of the

Card 1/3

The Electrical and Physical Properties of Technical Electric Insulation Materials When Subjected to Radioactive Irradiation

80154 \$/105/60/000/05/14/028 8007/8008

polyethylene-, "Fluoroplast"-, and polystyrene type do not change the mechanism of the dielectric losses and the polarization at an irradiation with gamma rays of a dosage of up to 106 at room temperature. The absolute values of the dielectric constants, of the loss angle, and the electric strength remain unchanged. An increase of the electrical conductivity is observed in polyethylene on low-temperature irradiation, and a reduction on irradiation under tropical conditions. In the case of the "Steklotekstolit SKM-1" (organosilicon synthetic material), the greatest changes occur as a result of low-temperature irradiation and at tropical humidity. The loss angle and the dielectric constant change most in consequence of the irradiation in the range of low frequencies. The electrical conductivity and the ohmic part of the dielectric losses increase in organosilicon rubber after irradiation. 6 An irradiation of raw rubber with gamma rays accelerates the vulcanizing process. An increase of the losses is observed at an irradiation with gamma rays of the phenol formaldehyde synthetic materials. The loss angle changes most after an irradiation at low temperatures and under tropical conditions. The dielectric constant and the electric strength of these synthetic materials do not change after an

Card 2/3

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020002-1"

The Electrical and Physical Properties of Technical Electric Insulation Materials When Subjected to Radioactive Irradiation

80154 8/105/60/000/05/14/028 B007/B008

irradiation with gamma rays under the conditions mentioned. It is stated on the basis of these experimental data that the radiation strength of electric insulation materials depends on the physical and chemical properties of the material and its structure, as well as on the exterior conditions during irradiation and investigation. The authors are of the opinion that the character of the polarization and the dielectric losses in one or the other temperatureand frequency range is the most important criterion for the radiation strength of the dielectric. It is necessary to know the temperature- and frequency characteristics of the dielectric constant and the angle of dielectric losses before expressing an opinion on the relative stability of the electric insulation material. The following persons took an active part in the experiments: V.D. Dedkov, Ye.A. Zimina, M.D. Lavrov, T.G. Mikhaylova, Ye.S. Nesmelova, T.B. Nedokos, L.A. Prudnikova, G.V. Sitozhevskaya and A.I. Tovbina. There are 16 figures.

ASSOCIATION: Sibirskiy fiziko-tekhnicheskiy institut pri Tomskom Gosudarstvennom universitete (Siberian Physics and Technology Institute at the Tomsk

SUBMITTED:

December 7, 1959

Card 3/3